



HiRISE Quest Spring 2007 Challenge Written Report

Name of teacher/student or class group:

- 1. What HiRISE image did you choose to study?**
- 2. Describe the area that has been imaged by HiRISE. You can do this by using some of the lower resolution Mars images* for overviews. (For example, is it part of a valley, canyon system, located in a crater, or near a volcano? If so, which one? Is it located in the south polar region, is it equatorial?) What features in the images provide clues to the type of setting? Why might this be a good general area to look for evidence of water?**

*Hint: There are many ways to do this. Easiest: Look at the lower resolution zoomable map (located on the website below the HiRISE Quest student challenge images) or the Context image map (located below the selected HiRISE image. More challenging: Log in to our image suggestion website and type in the latitude and longitude on the front main page. Or you can click on an area on the colorful Mars map to bring up a zoomable Mars map. Click the “gazetteer” and “grid” buttons at the bottom of this map to see the lat/lon and place names added. Most Challenging: You can also go to the login/image suggestion website and type in the HiRISE Image ID number to bring up the area of interest.

3. Use the pan/zoom feature on the HiRISE Quest image website (<http://marsoweb.nas.nasa.gov/hirise/quest>) to zoom in and view the HiRISE image. Compare the HiRISE image at its lowest resolution (lowest zoom level) with it's highest zoom level. Discuss what additional information zooming in to the HiRISE image tells you about this location. What can we see at highest zoom level that we couldn't see at the lowest zoom level?

4. What observations or clues in the HiRISE images and their context lead you to think there may or may not have been water at this location in the past? Why are they important and what can they tell you?

5. Draw conclusions from your work. What have you learned?

6. What new questions came up from working on this project? How would you go about trying to answer these questions? Remember, you can always make another suggestion, whether or not your area of interest was taken already. We will continue to image student suggestions, so keep them coming and keep looking back on the website for your image!

7. May we have your permission to post information in this report on our website? If you have suggested an image, may we have your permission to post the teacher's name, class, school, location (town, state, country)? For example, with your permission, we would like to add to the figure caption something like: "this image was suggested by Mrs. Smith's 6th grade class, Saratoga Middle School, San Jose, CA as part of the HIRISE Quest Spring 2007 Student challenge." If we post your suggestion or use material from this report, how would you like your group cited?

8. Thank you very much for participating in our first HiRISE Quest Student Challenge. So that we may improve future HiRISE Quest Student Challenges, could you please take a few minutes to tell us what you liked about this challenge? What areas need improvement? Any other suggestions or comments?